

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-4, 11, 14-17 and 19-22, CANCEL claims 13, 33 and 34, and ADD new claims 35-48 in accordance with the following:

1. (Currently Amended) A method of recording an audio/video (A/V) signal, comprising:
~~determining~~selecting a category item for the A/V signal using feature information included in at least one of system information and additional information of the received A/V signal;
storing search~~category~~ information about the A/V signal, the search ~~category~~ information including the category item;
~~determining a compression ratio for the A/V signal according to the category item selected for the A/V signal; and~~
recording the A/V signal to a storage medium, ~~which is compressed at the compression ratio;~~
~~wherein selecting the category item for the A/V signal comprises comparing feature information of the A/V signal with predetermined category items.~~
2. (Currently Amended) The method of claim 1, wherein the search~~category~~ information is stored in a memory provided separately from the storage medium.
3. (Currently Amended) The method of claim 1, wherein the search~~category~~ information is stored in the storage medium together with the A/V signal.
4. (Currently Amended) The method of claim 1, wherein the ~~determining~~selecting of the category item for the A/V signal, comprises:
extracting the feature information in which a category of the ~~from the A/V signal is seized;~~
comparing the feature information with a predetermined category ~~list~~ items; and
determining ~~selecting~~ the category item for the A/V signal based on a result of the comparison.

5. (Cancelled)

6. (Original) The method of claim 1, wherein the category item is selected by a user.

7. (Original) The method of claim 1, further comprising:
allowing a user to add a category item.

8-10. (Cancelled)

11. (Currently Amended) An apparatus for recording an audio/video (A/V) signal, comprising:

a first storage medium storing one or more A/V signals;

a demultiplexing processor for demultiplexing one of the an-input A/V signal, extracting feature information in which a category of the input A/V signal is seized~~of the A/V signal~~, and transmitting the input A/V signal to the first storage medium;

a controller for ~~determining~~selecting and storing a category item for the input A/V signal based on ~~a result of comparing the feature information provided from the demultiplexing processor with predetermined category items~~ and controlling the demultiplexing processor to record the input A/V signal to the first storage medium; and

a second storage medium storing search~~category~~ information including the category item for the A/V signal,

wherein the feature information is included in at least one of system information and additional information of the input A/V signal.

~~wherein the controller determines a compression ratio for the A/V signal according to the category item and provides information on the determined compression ratio to the demultiplexing processor, and the demultiplexing processor compresses the A/V signal at the compression ratio and transmits the compressed A/V signal to the first storage medium.~~

12-13. (Cancelled)

14. (Currently Amended) The apparatus of claim 11~~3~~, wherein the system information~~SI~~ comprises extended text table (ETT) information, extended channel name descriptor (ECND) information, and network text table information provided from a Program and System Information

Protocol (PSIP) or Out-Of-Band System Information (OOBSI).

15. (Currently Amended) The apparatus of claim 11~~3~~, wherein the system information~~SI~~ is used when the input A/V signal is a digital signal.

16. (Currently Amended) The apparatus of claim 11~~43~~, wherein the additional information is used when the input A/V signal is an analog signal.

17. (Currently Amended) The apparatus of claim 11~~43~~, wherein the additional information ~~received together with the input A/V signal~~, is received through the same channel or a different channel than the input A/V signal.

18. (Cancelled)

19. (Currently Amended) An apparatus for recording an audio/video (A/V) signal to a storage medium, comprising:

a ~~determining~~ selecting unit ~~determining~~selecting a category item for the A/V signal using feature information included in at least one of system information and additional information of received A/V signal;

a storing unit storing search~~category~~ information about the A/V signal, the search~~category~~ information including the category item; and

a recording unit recording the A/V signal to the storage medium;

~~wherein the recording unit comprises a determining unit determining a compression ratio for the A/V signal according to the category item selected for the A/V signal, the recording unit recording the A/V signal, which is compressed at the compression ratio, to the storage medium;~~

~~wherein the selecting unit selects the category item based on a result of comparing feature information of the A/V signal with predetermined category items.~~

20. (Currently Amended) The apparatus according to claim 19, wherein the search~~category~~ information is stored in a memory provided separately from the storage medium.

21. (Currently Amended) The apparatus according to claim 19, wherein the search~~category~~ information is stored in the storage medium together with the A/V signal.

22. (Currently Amended) The apparatus according to claim 19, wherein the ~~determining~~selective unit comprises:

an extracting unit extracting the feature information in which a category of the A/V signal is seized; and

a comparing unit comparing the feature information with a predetermined category list, wherein the ~~determining~~selecting unit ~~determines~~selects the category item for the A/V signal based on a result of the comparison.

23. (Cancelled)

24. (Previously Presented) The apparatus according to claim 19, wherein the category item is selected by a user.

25. (Previously Presented) The apparatus according to claim 19, further comprising:
an input unit to enable a user to add a category item.

26-34. (Cancelled)

35. (New) The method of claim 1, wherein the A/V signal recording comprises:
determining a compression ratio for the A/V signal according to the category item determined for the A/V signal, and recording the A/V signal, which is compressed at the compression ratio, to the storage medium.

36. (New) A method of searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the method comprising:
displaying, when a search for the A/V signal is requested, a category list of the one or more A/V signals stored in the storage medium;
displaying, when a category item to be searched for is selected from the displayed category list, a list of the A/V signal falling under the category item; and
reading, when the A/V signal is selected from the list of A/V signals, the selected A/V signal from the storage medium and displaying the selected A/V signal,
wherein the category item for the A/V signal is determined using feature information included in at least one of system information and additional information of the received A/V signal when the A/V signal is recorded.

37. (New) A method of searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the method comprising:

displaying, when a search for the A/V signal is requested, a category item for at least one of the A/V signals stored in the storage medium and a list of at least one of the A/V signals falling under the category item; and

searching, when the A/V signal to be searched for is selected from the displayed category item and A/V signal list, the storage medium for the selected A/V signal,

wherein the category item for the A/V signal is determined using feature information included in at least one of system information and additional information of the received A/V signal when the A/V signal is recorded.

38. (New) A method of searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the method comprising:

displaying, when a user inputs a category item to be searched for through a graphic user interface, a list of the one or more A/V signals falling under the category item among the one or more A/V signals stored in the storage medium; and

searching, when the A/V signal to be searched for is selected from the displayed list of one or more A/V signals, the storage medium for the selected A/V signal,

wherein the category item for the A/V signal is determined using feature information included in at least one of system information and additional information of the received A/V signal when the A/V signal is recorded.

39. (New) The apparatus of claim 11, wherein the controller determines a compression ratio for the input A/V signal according to the category item and provides information on the determined compression ratio to the demultiplexing processor, and the demultiplexing processor compresses the A/V signal at the compression ratio and transmits the compressed A/V signal to the first storage medium.

40. (New) An apparatus for searching a first storage medium, which stores one or more audio/video(A/V) signals, for one of the A/V signals, the apparatus comprising:

an information input unit inputting information pertaining to a request of searching for the A/V signal stored in the first storage medium;

a second storage medium storing search information including a category list of the one

or more A/V signals stored in the first storage medium;

a display unit displaying the category list; and

a controller reading the category list from the second storage medium and controlling the category list to be displayed on the display unit when the search request information is received from the information input unit, and when the A/V signal falling under a particular category item is selected from the displayed category list through the information input unit, reading the selected A/V signal from the first storage medium,

wherein the particular category item of the A/V signal is determined using feature information included in at least one of system information and additional information of the A/V signal when the A/V signal is recorded to the first storage medium.

41. (New) The apparatus according to claim 19, wherein the recording unit comprises a determining unit determining a compression ratio for the A/V signal according to the category item selected for the A/V signal, the recording unit recording the A/V signal, which is compressed at the compression ratio, to the storage medium,

wherein the determining unit determines the category item based on a result of comparing feature information of the A/V signal with predetermined category items.

42. (New) An apparatus for searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the apparatus comprising:

a display unit displaying, when a search for the A/V signal is requested, a category list of the one or more A/V signals stored in the storage medium, and, when a category item to be searched for is selected from the displayed category list, a list of the A/V signals falling under the category item; and

a reading unit reading, when the A/V signal is selected from the list of A/V signals, the selected A/V signal from the storage medium and displayed the selected A/V signal on the displaying unit,

wherein the category item is determined using feature information included in at least one of system information and additional information of the A/V signal when the A/V signal is recorded

43. (New) A method of searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the method comprising:

displaying, when a search for the A/V signal is requested, a category item for at least one

of the A/V signals stored in the storage medium and a list of at least one of the A/V signals falling under the category item; and

searching, when the A/V signal to be searched for is selected from the displayed category item and A/V signal list, the storage medium for the selected A/V signal,

wherein the category item is determined using feature information included in at least one of system information and additional information of the A/V signal when the A/V signal is recorded.

44. (New) An apparatus for searching a storage medium, which stores one or more audio/video (A/V) signals, for one of the A/V signals, the apparatus comprising:

a display unit displaying, when a user inputs a category item to be searched for through a graphic user interface, a list of the one or more A/V signals falling under the category item among the one or more A/V signals stored in the storage medium; and

a searching unit searching, when the A/V signal to be searched for is selected from the displayed list of the one or more A/V signals, the storage medium for the selected A/V signal.

45. (New) A method comprising:

extracting a category item from an audio/video(A/V) signal to be recorded to a storage medium using feature information included in at least one of system information and additional information of the audio/video signal;

storing search information including the extracted category item; and

searching for the A/V signal using the search information.

46. (New) The method of claim 45, further comprising:

compressing the A/V signal at a compression ratio determined based on the category item of the A/V signal when recording the A/V signal to the storage medium.

47. (New) An apparatus comprising:

an extracting unit extracting a category item from an audio/video (A/V) signal to be recorded to a storage medium using feature information included in at least one of system information and additional information of the audio/video signal;

a storing unit storing search information including the extracted category item; and

a searching unit searching for the A/V signal using the search information.

48. (New) The apparatus of claim 47, wherein the A/V signal is compressed at a compression ratio determined based on the category item of the A/V signal when recording the A/V signal to the storage medium.